Zakir Durumeric

Assistant Professor
Department of Computer Science
Stanford University

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Research Overview

My research brings a large-scale, empirical approach to the study of security, abuse, and misinformation on the Internet. I build systems to measure complex networked ecosystems, and I use the resulting perspective to understand online behavior, uncover weaknesses, architect more resilient approaches, and guide policy decisions.

Positions

– Assistant Professor, Computer Science, Stanford University, September 2018–present
– Founder, Director, and Chief Scientist, Censys, Inc., August 2017–present

Education

– Ph.D. in Computer Science and Engineering, University of Michigan, August 2017
  Advisor: J. Alex Halderman
  Committee: Vern Paxson, Michael Bailey, Peter Honeyman, Florian Schaub
– M.S. in Computer Science and Engineering, University of Michigan, May 2013
– B.S. in Computer Science and B.S. in Mathematics, University of Iowa, May 2011

Honors and Awards

– Community Contribution Award, ACM Internet Measurement Conference (2022)
– Test of Time Award, USENIX Security Symposium (2022)
– Okawa Foundation Research Award (2020)
– Google Faculty Research Award, Networking (2020)
– Google Security and Privacy Research Award (2019)
– IETF/IRTF Applied Networking Research Prize (2016, 2018)
– Best Paper Award, ACM Computer and Communication Security (2015)
– Pwnie Award for Most Innovative Research (2015)
– MIT Technology Review's "35 Innovators Under 35" (2015)
– Best Paper Award, ACM Internet Measurement Conference (2014)
– Google Ph.D. Fellowship in Computer Security (2014)
– Best Paper Award, USENIX Security (2012)

Conference Proceedings

[1] Hate Raids on Twitch: Echoes of the Past, New Modalities, and Implications for Platform Governance
Catherine Han, Joseph Seering, Deepak Kumar, Jeff Hancock, and Zakir Durumeric
ACM Computer-Supported Cooperative Work And Social Computing (CSCW), Oct. 2023

[2] Happenstance: Utilizing Semantic Search to Track Russian State Media Narratives about the Russo-Ukrainian War On Reddit
Hans Hanley, Deepak Kumar, and Zakir Durumeric
International AAAI Conference on Web and Social Media (ICWSM), June 2023

[3] "A Special Operation": A Quantitative Approach to Dissecting and Comparing Different Media Ecosystems' Coverage of the Russo-Ukrainian War
Hans Hanley, Deepak Kumar, and Zakir Durumeric
International AAAI Conference on Web and Social Media (ICWSM), June 2023

[4] A World Wide View of Browsing the World Wide Web
Kimberly Ruth, Aurore Fass, Jonathan Azose, Mark Pearson, Emma Thomas, Caitlin Sadowski, and Zakir Durumeric
ACM Internet Measurement Conference (IMC), Oct. 2022

[5] Toppling Top Lists: Evaluating the Accuracy of Popular Website Lists
Kimberly Ruth, Deepak Kumar, Brandon Wang, Luke Valenta, and Zakir Durumeric
ACM Internet Measurement Conference (IMC), Oct. 2022

[6] Retroactive Identification of Targeted DNS Infrastructure Hijacking
Gautam Akiwate, Raffaele Sommese, Mattijs Jonker, Zakir Durumeric, kc Claffy, Geoffrey Voelker, and Stefan Savage
ACM Internet Measurement Conference (IMC), Oct. 2022

[7] ZDNS: A Fast DNS Toolkit for Internet Measurement
Liz Izhikevich, Gautam Akiwate, Briana Berger, Spencer Drakontaidis, Anna Ascheman, Paul Pearce, David Adrian, and Zakir Durumeric
ACM Internet Measurement Conference (IMC), Oct. 2022
★ Community Contribution Award

[8] Retina: Analyzing 100 GbE Traffic on Commodity Hardware
Gerry Wan, Fengchen Gong, Tom Barbette, and Zakir Durumeric
ACM Special Interest Group on Data Communication (SIGCOMM), Aug. 2022

[9] Predicting IPv4 Services Across All Ports
Liz Izhikevich, Renata Teixeira, and Zakir Durumeric
ACM Special Interest Group on Data Communication (SIGCOMM), Aug. 2022

[10] On the Infrastructure Providers that Support Misinformation Websites
Catherine Han, Deepak Kumar, and Zakir Durumeric
International AAAI Conference on Web and Social Media (ICWSM), June 2022

[11] No Calm in The Storm: Investigating QAnon Website Relationships
Hans Hanley, Deepak Kumar, and Zakir Durumeric
International AAAI Conference on Web and Social Media (ICWSM), June 2022

[12] ASdb: A System for Classifying Owners of Autonomous Systems
Maya Ziv, Liz Izhikevich, Kimberly Ruth, Katherine Izhikevich, and Zakir Durumeric
ACM Internet Measurement Conference (IMC), Nov. 2021

[13] Tracing Your Roots: Exploring the TLS Trust Anchor Ecosystem
Zane Ma, James Austgen, Joshua Mason, Zakir Durumeric, and Michael Bailey
ACM Internet Measurement Conference (IMC), Nov. 2021

[14] Stratosphere: Finding Vulnerable Cloud Storage Buckets
Jack Cable, Drew Gregory, Liz Izhikevich, and Zakir Durumeric
Symposium on Research in Attacks, Intrusions and Defenses (RAID), Oct. 2021.

[15] Designing Toxic Content Classification for a Diversity of Perspectives
Deepak Kumar, Patrick Kelley, Sunny Consolvo, Joshua Mason, Elie Bursztein,
Zakir Durumeric, Kurt Thomas, and Michael Bailey
USENIX Symposium on Usable Privacy and Security (SOUPS), Aug. 2021.

[16] LZR: Identifying Unexpected Internet Services
Liz Izhikevich, Renata Teixeira, and Zakir Durumeric
USENIX Security Symposium (USENIX Security), Aug. 2021.

[17] What's in a Name? Exploring CA Certificate Control
Zane Ma, Joshua Mason, Manos Antonakakis, Zakir Durumeric, and Michael Bailey
USENIX Security Symposium (USENIX Security), Aug. 2021.

[18] SoK: Hate, Harassment, and the Changing Landscape of Online Abuse
Kurt Thomas, Devdatta Akhawe, Michael Bailey, Elie Bursztein, Dan Boneh,
Sunny Consolvo, Nicki Dell, Zakir Durumeric, Patrick Gage Kelley, Deepak Kumar,
Damon McCoy, Sarah Meiklejohn, Thomas Ristenpart, and Gianluca Stringhini
IEEE Symposium on Security & Privacy ("Oakland"), May 2021.

[19] On the Origin of Scanning: The Impact of Location on Internet-Wide Scans
Gerry Wan, Liz Izhikevich, David Adrian, Katsunari Yoshioka, Ralph Holz,
Christian Rossow, and Zakir Durumeric
ACM Internet Measurement Conference (IMC), Oct. 2020.

[20] Let's Encrypt: An Automated Certificate Authority to Encrypt the Entire Web
Josh Aas, Richard Barnes, Benton Case, Zakir Durumeric, Peter Eckersley,
Alan Flores-Lopez, J. Alex Halderman, Jacob Hoffman-Andrews, James Kasten,
Eric Rescorla, Seth Schoen, and Brad Warren
ACM Conference on Computer and Communications Security (CCS), Nov. 2019.

[21] **All Things Considered: An Analysis of IoT Devices on Home Networks**
Deepak Kumar, Kelly Shen, Benton Case, Deepali Garg, Galina Alperovich,
Dmitry Kuznetsov, Rajarshi Gupta, and Zakir Durumeric
USENIX Security Symposium (USENIX Security), Aug. 2019.

[22] **Tracking Certificate Misissuance in the Wild**
Deepak Kumar, Zhengping Wang, Matthew Hyder, Joseph Dickinson, Gabrielle Beck,
David Adrian, Joshua Mason, Zakir Durumeric, J. Alex Halderman, and Michael Bailey
IEEE Symposium on Security & Privacy ("Oakland"), May 2018.

[23] **Target Generation for IPv6 Scanning**
Austin Murdock, Frank Li, Paul Bramsen, Zakir Durumeric, and Vern Paxson
ACM Internet Measurement Conference (IMC), Nov. 2017.

[24] **Understanding the Mirai Botnet**
Manos Antonakakis, Tim April, Michael Bailey, Matt Bernhard, Elie Bursztein,
Jaime Cochran, Zakir Durumeric, J. Alex Halderman, Luca Invernizzi, Michalis Kallitsis,
Deepak Kumar, Chaz Lever, Zane Ma, Joshua Mason, Damian Menscher, Chad Seaman,
Nick Sullivan, Kurt Thomas, and Yi Zhou
USENIX Security Symposium (USENIX Security), Aug. 2017.

[25] **Security Challenges in an Increasingly Tangled Web**
Deepak Kumar, Zane Ma, Zakir Durumeric, Ariana Mirian, Joshua Mason,
Michael Bailey, and J. Alex Halderman
World Wide Web Conference (WWW), Apr. 2017.

[26] **The Security Impact of HTTPS Interception**
Zakir Durumeric, Zane Ma, Drew Springall, Richard Barnes, Nick Sullivan,
Elie Bursztein, Michael Bailey, J. Alex Halderman, and Vern Paxson
Network and Distributed System Security Symposium (NDSS), Feb. 2017.

[27] **An Internet-Wide View of ICS Devices**
Ariana Mirian, Zane Ma, David Adrian, Matthew Tischer, Thasphon Chuenchujit, Tim Yardley,
Robin Berthier, Josh Mason, Zakir Durumeric, J. Alex Halderman and Michael Bailey
IEEE Conference on Privacy, Security, and Trust (PST), Dec. 2016.

[28] **Measuring the Security Harm of TLS Crypto Shortcuts**
Drew Springall, Zakir Durumeric, and J. Alex Halderman
ACM Internet Measurement Conference (IMC), Nov. 2016.

[29] **Towards a Complete View of the Certificate Ecosystem**
Benjamin VanderSloot, Johanna Amann, Matthew Bernhard, Zakir Durumeric,
Michael Bailey, and J. Alex Halderman
ACM Internet Measurement Conference (IMC), Nov. 2016.

[30] **You've Got Vulnerability: Exploring Effective Vulnerability Notifications**
Frank Li, Zakir Durumeric, Jakub Czyz, Mohammad Karami, Michael Bailey,

Damon McCoy, Stefan Savage, and Vern Paxson
USENIX Security Symposium (USENIX Security), Aug. 2016.

[31] FTP: The Forgotten Cloud
Drew Springall, Zakir Durumeric, and J. Alex Halderman
IEEE/IFIP Conference on Dependable Systems and Networks (DSN), June 2016.

[32] Users Really Do Plug in USB Drives They Find
Matthew Tischer, Zakir Durumeric, Sam Foster, Sunny Duan, Alec Mori,
Elie Bursztein, and Michael Bailey
IEEE Symposium on Security & Privacy ("Oakland"), May 2016.

[33] Neither Snow Nor Rain Nor MITM... An Empirical Analysis of Email Delivery Security
Zakir Durumeric, David Adrian, Ariana Mirian, James Kasten, Elie Bursztein,
Nicholas Lidzborski, Kurt Thomas, Vijay Eranti, Michael Bailey, and J. Alex Halderman
ACM Internet Measurement Conference (IMC), Oct. 2015.
★ **IETF/IRTF Applied Networking Research Prize**

[34] Imperfect Forward Secrecy: How Diffie-Hellman Fails in Practice
David Adrian, Karthikeyan Bhargavan, Zakir Durumeric, Pierrick Gaudry, Matthew Green,
J. Alex Halderman, Nadia Heninger, Drew Springall, Emmanuel Thomé, Luke Valenta,
Benjamin VanderSloot, Eric Wustrow, Santiago Zanella-Béguelin, and Paul Zimmermann
ACM Conference on Computer and Communications Security (CCS), Oct. 2015.
★ **Best Paper Award**   ★ **Pwnie Award for Most Innovative Research**

[35] Censys: A Search Engine Backed by Internet-Wide Scanning
Zakir Durumeric, David Adrian, Ariana Mirian, Michael Bailey, and J. Alex Halderman
ACM Conference on Computer and Communications Security (CCS), Oct. 2015.

[36] The Matter of Heartbleed
Zakir Durumeric, Frank Li, James Kasten, Johanna Amann, Jethro Beekman, Mathias Payer,
Nicolas Weaver, David Adrian, Vern Paxson, Michael Bailey, and J. Alex Halderman
ACM Internet Measurement Conference (IMC), Nov. 2014.
★ **Best Paper Award**

[37] Security Analysis of the Estonian Internet Voting System
Drew Springall, Travis Finkenauer, Zakir Durumeric, Jason Kitcat, Harri Hursti,
Margaret MacAlpine, and J. Alex Halderman
ACM Conference on Computer and Communications Security (CCS), Nov. 2014.

[38] An Internet-Wide View of Internet-Wide Scanning
Zakir Durumeric, Michael Bailey, and J. Alex Halderman
USENIX Security Symposium (USENIX Security), Aug. 2014.

[39] Outsmarting Proctors with Smartwatches: A Case Study on Wearable Computing Security
Alex Migicovsky, Zakir Durumeric, Jeff Ringenberg, and J. Alex Halderman
Conference on Financial Cryptography and Data Security (Financial Crypto), Mar. 2014.

[40] **On the Mismanagement and Maliciousness of Networks**
Jing Zhang, <u>Zakir Durumeric</u>, Michael Bailey, Manish Karir, and Mingyan Liu
Network and Distributed System Security Symposium (NDSS), Feb. 2014.

[41] **Analysis of the HTTPS Certificate Ecosystem**
<u>Zakir Durumeric</u>, James Kasten, Michael Bailey, and J. Alex Halderman
ACM Internet Measurement Conference (IMC), Oct. 2013.

[42] **ZMap: Fast Internet-Wide Scanning and its Security Applications**
<u>Zakir Durumeric</u>, Eric Wustrow, and J. Alex Halderman
USENIX Security Symposium (USENIX Security), Aug. 2013.

[43] **Mining Your Ps and Qs: Detection of Widespread Weak Keys in Network Devices**
Nadia Heninger, <u>Zakir Durumeric</u>, Eric Wustrow, and J. Alex Halderman
USENIX Security Symposium (USENIX Security), Aug. 2012.
★ Best Paper Award   ★ Test of Time Award, USENIX Security 2022
★ *Computing Reviews'* Notable Computing Books and Articles of 2012

Journal Articles

[44] **Imperfect Forward Secrecy: How Diffie-Hellman Fails in Practice**
David Adrian, Karthikeyan Bhargavan, Zakir Durumeric, Pierrick Gaudry, Matthew Green,
J. Alex Halderman, Nadia Heninger, Drew Springall, Emmanuel Thomé, Luke Valenta,
Benjamin VanderSloot, Eric Wustrow, Santiago Zanella-Béguelin, and Paul Zimmermann
Communications of the ACM, *Jan. 2019.*

[45] **Scanning the Internet for Liveness**
Shehar Bano, Philipp Richter, Mobin Javed, Srikanth Sundaresan, <u>Zakir Durumeric</u>,
Steven Murdoch, Richard Mortier, Vern Paxson
SIGCOMM Computer Communication Review, *2018*
★ **IETF/IRTF Applied Networking Research Prize**

[46] **The Danger of USB Drives**
Matthew Tischer, <u>Zakir Durumeric</u>, Elie Bursztein, and Michael Bailey
IEEE Security & Privacy (S&P Magazine), April 2017.

Workshop Publications

[47] **Zippier ZMap: Internet-Wide Scanning at 10Gbps**
David Adrian, <u>Zakir Durumeric</u>, Gulshan Singh, and J. Alex Halderman
USENIX Workshop on Offensive Technologies (WOOT), Aug. 2014.

Technical Reports

[48] **An Empirical Analysis of HTTPS Configuration Security**
Camelia Simoiu, Wilson Nguyen, and <u>Zakir Durumeric</u>

[49] An Empirical Analysis of California Data Breaches
Richard Chen and Zakir Durumeric

Patents

– **Network Maliciousness Susceptibility Analysis and Rating**
Mingyan Liu, Michael Bailey, Manish Karir, Jing Zhang, and Zakir Durumeric
United States Patent No. 9729558B2

Professional Service

Program Committees

– IEEE Symposium on Security and Privacy ("Oakland"), 2022–23
Associate Chair, 2022.
– USENIX Security Symposium, 2018–23.
Research Ethics Committee, 2022–23.
– USENIX Enigma, 2022–23.
– ACM Internet Measurement Conference (IMC), 2018–21.
Ethics Committee, 2021.
– USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2021.
– International World Wide Web Conference (WWW), 2016–2018, 2020.
– ACM SIGCOMM Workshop on Secure & Programmable Network Infrastructure (SPIN), 2020.
– ACM Conference on Computer and Communications Security (CCS), 2018.
– Symposium on Research in Attacks, Intrusions, and Defenses (RAID), 2018.
– Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA), 2016–17.
– USENIX Workshop on Offensive Technologies (WOOT), 2015.

Editorial Service

– Editorial Board, Journal of Online Trust and Safety, 2021–

Department and University Service

– Ph.D. Admissions Committee, Computer Science, Stanford University, 2018–23.
Systems Area Lead, 2019–21.
– Diversity Committee, Computer Science, Stanford University, 2021–23.
– Technical Advisory Committee, Stanford TrustDER Project, 2022–

Teaching

– **Topics in Computer and Network Security** (CS 356). Stanford. F'2018–20, W'21, F'22.
Created new graduate course, which covers foundational research literature and current topics in computer and network security. Students read and discuss papers as well as complete an independent research project.

- **Computer and Network Security** (CS 155), Stanford, S'2019–23.
  Co-taught introduction security and privacy course.
- **The Modern Internet** (CS 249i), Stanford, F'21, W'22.
  Created new advanced networking course that covers how the Internet has evolved and operates today. Topics include modern Internet topology and routing practices, recently introduced network protocols, popular content delivery strategies, and pressing privacy, security, and abuse challenges. The course consists of a mixture of lecture, guest talks, and investigative projects where students will analyze how Internet operates in practice.

Advising and Mentoring

Ph.D. Students

- Liz Izhikevich (NSF Fellow, 2019–)
- Gerry Wan (2019–)
- Kimberly Ruth (NSF Fellow, 2020–)
- Hans Hanley (NSF Fellow, 2021–)
- Catherine Han (NSF Fellow, 2021–)
- Agur Adams (2022–)

Postdoctoral Scholars

- Deepak Kumar (CRA Postdoctoral Fellowship, 2020–2023)
- Gautam Akiwate (2022–2024)

Visiting Assistant Professors

- Aurore Fass (2021–2023)
- Dolière Francis Somé (2022–2024)

Doctoral Committees

- Deepak Kumar (Ph.D., Computer Science, University of Illinois, July 2020)
- Camelia Simoiu (Ph.D., Management Science and Engineering, Stanford University, July 2020)
- William DeRocco (Ph.D., Physics, Stanford University, March 2021, chair)
- Saba Eskandarian (Ph.D., Computer Science, Stanford University, May 2021)
- Zane Ma (Ph.D., Computer Science, University of Illinois, June 2021)
- Fraser Brown (Ph.D., Computer Science, Stanford University, March 2022)
- Brian Kondracki (Ph.D., Computer Science, Stony Brook University)
- Liz Izhikevich (Ph.D., Computer Science, Stanford University)
- Gerry Wan (Ph.D., Computer Science, Stanford University)

– Kimberly Ruth (Ph.D., Computer Science, Stanford University)

– Hans Hanley (Ph.D., Computer Science, Stanford University)

– Catherine Han (Ph.D., Computer Science, Stanford University)

Undergraduate and Masters Independent Studies

– 2022: Anna Ascheman, Jerry Chen, Nahum Maru, Vrushank Gunjur, Sheryl Hsu, George Hosono, America Sophia George, Mark Tran, Jaylene Martinez, Lauren Sue Fletcher, Basheerah Abdus-Shakur, Britney Tran

– 2021: Fengchen (Maggie) Gong ($\rightarrow$ Princeton Ph.D.), Anna Zeng, Laura Bauman, Ayelet Drazen, Luca Pistor, Nathan Bhak, Naylynn Tañón, Oumnia Chellah, Sanjaye Narayan, Manda Tran, Vishal Mohanty, Briana Berger, Spencer Drakontaidis, Lauren Sau-Fletcher, Gordon Martienz-Piedra, Jinyoung Kim

– 2020: Armin Namavari ($\rightarrow$ Cornell Ph.D.), Amanda Hsu ($\rightarrow$ Georgia Tech Ph.D.), Maya Ziv, Jack Cable ($\rightarrow$ TechCongress Fellow), Roshni Padhi, Drew Gregory, Belge Dogru, Ryan Eberhardt, Andrew Guan, Will Brand, Samsara Durvasula, Lexi Kuppersmith, Muskan Shafat

– 2019: Wilson Nguyen ($\rightarrow$ Stanford Ph.D.), Alan Ernesto Flores-Lopez, Cindy Kuang, Conrad Edwards

– 2018: Richard Chen

– 2017: Gabrielle Beck ($\rightarrow$ JHU Ph.D.), Alex Holland

– 2016: Alishah Chator ($\rightarrow$ JHU Ph.D.), Noah Duncan

– 2015: Ariana Mirian ($\rightarrow$ UCSD Ph.D.), Rose Howell, Vikas Kumar

– 2014: Gulshan Singh, Saam Aghevli, Andrew Modell, Kollin Purcell, Jack Miner

– 2013: David Adrian ($\rightarrow$ Michigan Ph.D.), Jennifer O'Neil

Speaking

– **Ethics in ICT Research and Development**
NSF SaTC PI Meeting (invited panelist), June 2022

– **Moderation in the Infrastructure Layer**
UCLA Institute for Technology, Law & Policy (invited panelist), April 2022

– **Censys Retrospective**
Workshop on Active Internet Measurements (invited), Apr. 2019 ; Inria Paris (invited), June 2019; CISPA Helmholtz Center for Information Security, Jan. 2022 (invited)

– **The Security Impact of HTTPS Interception**
Network and Distributed System Security Symposium (NDSS'17), Feb. 2017;
Brave (invited), Dec. 2020

- **Mirai and the Current State of IoT Security**
  Laboratory of Information, Networking and Communication Sciences (invited), June 2019; VMWare (invited), May 2019; CyberSec & AI Prague (invited), Oct. 2019

- **An Epidemiological Approach to Security**
  Stanford Data Science Initiative Retreat, Nov. 2018

- **Understanding the Mirai Botnet**
  Merit Member Conference (invited keynote), May 2018; University of Iowa Computing Conference (invited), Feb. 2018; Stanford University, Aug. 2017 (invited)

- **Five Years Later: A Retrospective on ZMap and Internet-Wide Scanning**
  M^{3}AAWG 42nd General Meeting, Feb. 2018 (invited); Facebook, May 2018 (invited)

- **Internet-Wide Scanning: A New Security Perspective**
  Qatar Computing Research Institute, Nov. 2017 (invited); MIT Technology Review, EmTech, Nov. 2015 (invited); Google, May 2015 (invited)

- **Uncovering Cryptographic Failures with Internet-Wide Measurement**
  CMU CyLab, April 2016 (invited); Northeastern University, March 2016 (invited); Boston University, Mar. 2016 (invited); Stanford Security Seminar, Mar. 2016 (invited); MIT CSAIL Security Seminar, Nov. 2015 (invited)

- **Neither Snow Nor Rain Nor MITM... An Empirical Analysis of Email Delivery Security**
  Cloudflare Crypto Meetup, Apr. 2016 (invited); Internet Research Task Force (IRTF), Apr. 2016 (invited); Chaos Communication Congress (32c3), Dec. 2015 (invited); University of Iowa, 2018 Kurtz Lecture, Oct. 2018 (invited)

- **The Matter of Heartbleed**
  Chaos Communication Congress (31c3), Dec. 2014; Internet Measurement Conference (IMC '14), Nov. 2014; University of Illinois, Systems and Networking Seminar Series, Oct. 2014

- **An Internet-Wide View of Internet-Wide Scanning**
  USENIX Security, Aug. 2014

- **ZMap: Fast Internet-Wide Scanning and its Security Applications**
  IT University of Copenhagen, June 2014; Vrije Universiteit Amsterdam, June 2014; RIPE 68, May 2014; University of Michigan, Nov. 2013; Eurecom, Oct. 2013; USENIX Security, Aug. 2013

- **Analysis of the HTTPS Certificate Ecosystem**
  Internet Measurement Conference, Oct. 2013

- **Mining Your Ps and Qs: Detection of Widespread Weak Keys in Network Devices**
  USENIX Security, Aug. 2012; University of Iowa, June 2012 (invited)

References

Michael Bailey

Professor of Computer Science and Chair of School of Cybersecurity and Privacy, Georgia Institute of Technology

Nick Feamster

Professor of Computer Science and Director of the Center for Data and Computing, University of Chicago

Vern Paxson

Professor Emeritus, U.C. Berkeley and Chief Scientist, Corelight, Inc.

Dan Boneh

Professor of Computer Science and Electrical Engineering, Stanford University

Stefan Savage

Professor of Computer Science and Engineering, U.C. San Diego

J. Alex Halderman

Professor of Computer Science and Director of Center for Computer Security and Society, University of Michigan